P.W.G. 17 — Original/Duplicate/Triplicate

NO 1 — 1st and final Bill

CONTRACT CERTIFICATE

Reference paras 158 & 170

Division Yelahanka

Bills received No

YNK DOR No. 14 Date 23.09.17

Sub division Yelahanka New Town — Date

Sub-divisional — Cash book vr No

Divisional — Date

Sheduled Docket No

Head of account P. 3110

Name of work(as per sanctioned estimate) :-

Work Code:004-17-000057

NAME OF WORK :Providing drinking water works in ward no 04 in Yelahanka Division

Name of contractor and full address :-

Technical Manager (west)

Reference to agreement No :- 90

Estimated cost : 13.00 — Work order No :90, dt:30/06/2017

Certified that the measurments were taken by me on 31/08/17 and recorded on pages 105435 to 457 of measurment book No 1056 and the work is satisfactorily executed by the contractor.

Signature of contractor

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Ramanjaneyaswamy AR
Asst. Engineer

Certified that the measurments were taken by me on 31/08/17 and recorded correct.The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon.A formal agreement signed and executed by the contractor is recorded in divisional office.

Sub-divisional officer

ಉಪವಿಭಾಗ ಅಧಿಕಾರಿ ಯಲಹಂಕ
ಉಪವಿಭಾಗ ಅಧಿಕಾರಿ ಯಲಹಂಕ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ವಿಂಗಡಣೆ-106

II MEMORANDUM OF PAYMENT

1) Total value of work done or supplies as per A/c within	1st & FINAL	1291150:00
2) Deduct amount to be held in reserve being-----percent Rs----------%	FSD	64557:00
3) Balance---	IT	25823:00
4) Deduct payments	LC	12911:00
a) Amount of previous payment as in divisional/sub divisional Cash book vr No----------dated----------S.D No----------Amount adjusted towards cash advance recovery of	CBF	1291:00
	Royalty	2657:00
b) Cost of payments/stores or other materials supplied now made recovery of	T.D	107239:00
Amount paid on this bill by cheque/cash	Net	1183911:00
Total		
5). Balance being unpaid value of work done held in reserve		
6) Deduct cash of advance made on divisional/sub divisional cash book		
7) Net amount due to or from contractor.		
UN ADJUSTED ITEMS		
8) Advance to contractor for materials to site(as detailed within)		
9) Value of government materials supplied.		
TOTAL AMOUNT UN-ADJUSTED		

Contractor's signatures

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum
(in final settlement of all demand)

Witness
1)
2)

Reciept Stamp

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Dated signature of contractor
paid by me cheque No dated

Cash Rs.....

Initials of officer making payment

Date

1291150:00
1183911:00
107239:00

Executive Engineer

Date

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
1	2	3	4	5	6	7	8	9	10
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per	cum			7.50	233.50	1751.25	7.50	1751.25
2	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5	cum			18.12 ~~18.13~~	299.98	5435 ~~5438.64~~	18.12 ~~18.13~~	5435 ~~5438.64~~
3	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/sand/kanker/Moorum .KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no130,PWD SR 2015-16)	cum			25.62 ~~25.63~~	87.26	2235 ~~2236.47~~	25.62 25.63	2235 2236.47

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
4	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exeeding 15cms thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications.Specification no KBS4.1,4.2(Item no 4.3,Page no12,PWD SR 2015-16)	cum			~~3.15~~	5159.02	16250.91	3.15	~~16250.~~91
5	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with lead upto 50 m and lift upto 1.5 m including cost of all labour complete as per specifications.	cum			6.33 ~~6.82~~	134.62	852 ~~918.11~~	6.33 ~~6.82~~	~~8~~52 ~~918.11~~

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
6	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of nominal mix 1:1.5:3 with 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapetscoping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. (excluding cost of steel, fabrication & plastering) Specification No. KBS 4.1, 4.6	cum			2.58	6371.66	16438.88	2.58	16438.88
7	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	cum			4.89	4438.22	21702.90	4.89	21702.90
8	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications	cum			4.50	5305.30	23873.85	4.50	23873.85

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
9	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications	sqm			8.29 ~~10.00~~	102.82	852.3 ~~1028.20~~	10.00	852.3 ~~1028.20~~
10	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2	sqm			8.04	102.82	826.67	8.04	826.67
11	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications	sqm			42.14 ~~42.35~~	993.22	41854 ~~42062.87~~	42.14 ~~42.35~~	41854 ~~42062.87~~

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
12	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3	qtl			0.27	5941.30	1604.15	0.27	1604.15
13	KSRB 15.3.1Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications	sqm			83.19 ~~85.68~~	159	13227 ~~13623.12~~	83.19 ~~85.68~~	13227 ~~13623~~.12
14	Fixture for doors and windowa page No XIV Sr 2016-17 Ventilators SL.No 395, 385, 402, 386, Hinges 5" lock nail				4.00	37.00	148.00	4.00	148.00
a	Bottoms lock nail	each			10.00	47.00	470.00	10.00	470.00
b	MS Clamps	each			8.00	38.00	304.00	8.00	304.00
c	Brass Screws 25mm	each			50.00	2.10	105.00	50.00	105.00

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
15	KSRB 7.4 : Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, using M.S. flats 30x6 mm for diagonal braces and central cross pieces 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per specifications. 1 double leaf door of size 2.4x2.4m Specification No. KBS 7.9 / 7.12	sqm			7.25 ~~7.50~~	2025.66	14686 ~~15192.45~~	7.25 ~~7.50~~	14686 ~~15192.45~~
16	Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete.	sqm			15.40	1133.14	17450.36	15.40	17450.36

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
17	KSRB 15-17.2 : Applying priming coat over new wood surface and / or wood based surface after brushing with wood primer pink paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.	sqm			8.22	38.16	313.68	8.22	313.68
18	KSRB 15-17.6 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications	sqm			8.22	89.04	731.91	8.22	731.91
19	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.	sqm			8.22	95.40	784.19	8.22	784.19

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
20	Providing and finishing extrenal walls in two coats with waterproof cement paints of approved brans and shade to given an even shade after throughlu brooming the surface to remova all dirt and loose powered materila,s free rom mortor drops and other foreign matter cost of materails. labours complete as per specificaction				7.50	89.04	667.80	7.50	667.80
21	Providing trapercodial Profiles Sheet providing and intsalling of pre painted Falvolume irom tiprezoddial profied sheet of approved make 1060 mm with (1000 mm cover wodeth) 28-30 mm crest height with cest dsitance of 200 c/c/ woth 2ribes at the centre for stiffering the total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance ZInc - Alu alloy coatinf AZ 150 gsm as per ASTM coat 20-2	sqm			22 ~~22.50~~	831.60	18295 ~~18711.00~~	22 ~~22.50~~	18295 ~~18711.00~~
22	steel pre facricaties structure with a 14 Guage (3)" each 60 kg including cutting and transporation complete MS Rectagulartubes (Purlines) 1 Length = 35.00 kgs = 4/5= 20/6 Mtrs lenth = 3 enth x 35 kgs M.S Rectagular tubes (purilines) 1 Lenth = 35.00 ggs = 3x4=12/6 mtrs ler length = 2 length x35	kgs			174 ~~175.00~~	95.00	16530.00 ~~16625.00~~	174 ~~175.00~~	16530.00 ~~16625.00~~

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
1	Poitng wiring copper wire with switch supplying and wiring doptong loop suystem in exisiting PVC conduit casing capping using 1100 V gradw, copper conductedf flexble multistrand FRLSPVC insulated 2x1.SS Sq.mm cable confirming to the GTP without the other end o the wires	point			2.00	144.00	288.00	2.00	288.00
	b) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch	point			2.00	215.00	430.00	2.00	430.00
	c) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	point			2.00	334.00	668.00	2.00	668.00
2	Open conduit system supply heavy gauge PVC pipe-conduit pipe ____ dia __ mm thick confirming too 2509 with suitable size bends junction boxes, adhesive pase etc.., fixing using inverted wood plugs in case of RCC ceiling and RCC walls / stones strucre of rawls plugs in caseing brick walls and cements platering the damages portion using heavy guage saddles at an interval of 700 mm using NF creaws	mtr			20.00	54.00	1080.00	20.00	1080.00
3	Wiring for lighting / power casing using one FRLS PVC insulated 1100 V grade multistrand copper with low condutor registred single core wire open or concrealed system of wiring with specificated IS-694 1990 & condfirming to GTP of Group-A	mtr			50.00	18.60	930.00	50.00	930.00
	2.5.2) 1.5 sqmm	each			50.00	13.00	650.00	50.00	650.00
	2.5.1) sqmm	each			50.00	29.20	1460.00	50.00	1460.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
	2.5.3) .sqmm	each			50.00	42.10	2105.00	50.00	2105.00
	2.5.4) .sqmm	each			2.00	87.00	174.00	2.00	174.00
4	Supplying and flush mounting teak wooden without front plank, made of not less than 12 m thick wood, after due groove cutting finishing with necessary cement platsering completes	each			2.00	87.00	174.00	2.00	174.00
	1.6.4) 8x6x3 (203x152x76m)	each			1.00	73.00	73.00	1.00	73.00
	1.6.1) 12x12x3 (123x12mx3)(300x300x76mm)	each			1.00	116.00	116.00	1.00	116.00
5	Supplying 4 mm thick platic sheet with necessaru nitches for exising swicthe, regulators etc.., and fixing o exising wooden or metal box using NF screws	each			1225.00	0.25	306.25	######	306.25
6	Supplying and fixing / replacing of 6/16/32Amps electrical acceossries on exisiting swicth board Group A						0.00	0.00	0.00
	3.15.1) 6 Amps SP swith	nos			1.00	35.00	35.00	1.00	35.00
	3.15.3) 6 Amps 3 ways 5 pin socket	nos			1.00	53.00	53.00	1.00	53.00
	3.15.6) 6 Amps lamp holder	nos			3.00	48.00	144.00	3.00	144.00
	3.15.13) 16/6 Amps lamp holder	nos			4.00	268.00	1072.00	4.00	1072.00
7	Supplying and fixing of modular switch / socket / stepped electronic fan regulator / dimmer / telephone socket / dimmer / telephone socket etc on exisiting modular swicth plate as per IS 3854 and IS 1293 Group B 3.7.18) 1000-1200 wts dimmer	each			1.00	447.00	447.00	1.00	447.00

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
8	Supplying and fixing miniatue circuit breakers on exising MCB distruibuttors boards using necessary fixing materails and C types curve indicators ON/OFF energcy cross-3 with short circuit breaking capacity of 10 K and complete wiring 6.16.1) 5-32 Amps SP	each			1.00	418.00	418.00	1.00	418.00
9	Supplying fixing wiring earth electrode for grouding conduits IC cutouts and other equipment on the meter boards using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buries in a pit The pit should be filled with equal proportion of salt and charcoal 150 mm all-round the pipe to complete depth the connection from the pipe to the conduit etcc.., is no be establishes through GI wire as per ISI specification 7.3.	nos			1.00	2727.00	2727.00	1.00	2727.00
10	Supplying and fixing of porcelain fuse chanel with cut out on existing wooden/panel using ncessary nuts, bolts and washers etc complete (P.32/I.3a) Electrical -SR 2015 16)	each			1.00	120.00	120.00	1.00	120.00

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
11	Supply patty type fluorescent tube light fitting of 4 feet 40 watts fluorescent tube of 230 volts made of M.S. sheet and stove enameled with heavy duty polyfill aluminum choke, starter, locking type brass contact holders mounted on foldable type sheet base fully wired.for use on 230 volts AC supply including 1 Nos 4'-36/40 watts fluorecent tube A Group (P.16/1.2a) Electrical - SR 2015-16)	each			5.00	340.00	1700.00	5.00	1700.00
12	Fixing all types and all capacities of fluoecent / false ceiling / spot light CFL / LED fitting indoor on the wall ceiling / rafters / girder using 23/0.0076 twings twisted PVC insluated wires requires Nos of round blcoks and clmps 17.7.1) On wall / ceiling / Rafter / Girider	each			5.00	98.00	490.00	5.00	490.00
13	Short Poles (Whereas cleareance betwenn mesnages wire and groud in inadequated) a) Supplyong and fixing 40 mm diat 2.90 thick GI pipe 1.8 m long complete with atleast 2 GI pipe 1.8 m long complete with atleast 2 Nos of through bolts 12 mm dia with MS bakc plate 100x100x6mm dia with eye bolt fixed top deadinning messagner wire with asonry	each			1.00	525.00	525.00	1.00	525.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
14	Insulated Cable on Messager Wire Using 2 sigle core wires for 3 phase supplying and strining PVC insulated and PVC sheated 650/1100 V galss aluminous conductir of size supported by 3.15 mm (10 SWG) GI messagner wire with two break insulator one at each of the span with suspenders at intervals of 0.75 m each suspenders shall be porcelain reel insulator of suitable core through which insulated wire passes (Single core or twin core as the case may be) and this reel insulator shall be fixied to the messagner wire using 2mm (No 14SWS) GI wire suitably bend and twisted	Rmtr			55.00	85.00	4675.00	85	4675
	RAW WATRE PUMP								
	Qualtity								
	Type								
	MOC & Make								
	Motor Rating								
	PRESSURE SAND FILTER								
	Quantity								
	Capacity								
	MOC & Make of housing								
	MOC & Make of Cartidge								
	Capacity								
	MOC & Make of vessel								
	Diameter								
	Type of valve								
	Media								
	MICRON CATRIDGE FILETR								
	Quanity								
	Type								
	Capacity								
	Dosing Tank								
	HIGH PRESSURE PUMP								
	Quantity								

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
	Capaicty								
	Type of Pump								
	MOC								
	Motor rating								
	Maximum Pressure								
	Make								
	RESERVE OSMOSIS SYSTEM								
	Quantity								
	Capacity								
	Module Type								
	Members Specification (Polyamde)								
	No.of Membranes								
	UV STERLISER								
	Max. Treatment Flow								
	No.of Lamps								
	Wattages								
	Efficiency								
	Materi;ls of construction								
	PRODUCT WATER QUALITY								
	Appearance								
	Abide the the ISO standards								
	S F Tank ; 304 grade with 16								
	304 grade 10 guage SS pipe (with steam valve) 25 ft								
	COIN BOOTH DISPENSING UNIT								
	for 5 liters & 20 ltrs separately								
	Raw water storage Tank								
	Type / MOC								
	BBMP Approoved				1	946000	946000	1	946000
			TOTAL			1192542	1192000.00		1192000.00
			KRIDL 9%			106608	107313.00		107313.00
			Grand Total			1299150.00	~~1299313.00~~		~~1299313.00~~
							1299000/-		1299000/-

Ward No 04

Assistant Execuive Engineer
Yelahanka Satellite Town Sub Division
BBMP, Bangalore